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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/709,055	(04/09/2004	1-Chang Tsao	12404-US-PA	12404-US-PA 3054	
31561	7590	02/23/2006		EXAMINER		
		TELLECTUAL PR	ELVE, MARIA ALEXANDRA			
7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100				ART UNIT	PAPER NUMBER	
				1725		
TAIWAN				DATE MAILED: 02/23/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/709,055	TSAO ET AL.					
	Office Action Summary	Examiner	Art Unit					
		M. Alexandra Elve	1725					
Period fo	The MAILING DATE of this communication apports. The MAILING DATE of this communication apports.	pears on the cover sheet with the	correspondence add	ress				
WHIC - Extendite after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Does not some may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONI	N. mely filed n the mailing date of this con ED (35 U.S.C. § 133).					
Status								
1)[\[\]	Responsive to communication(s) filed on <u>07 Da</u>	ecember 2005						
2a)⊠	This action is FINAL . 2b) This							
	, 	on for allowance except for formal matters, prosecution as to the merits is						
٠/١ـــا	closed in accordance with the practice under E	•						
Disposit	ion of Claims							
	Claim(s) 1-17 is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) <u>1-17</u> is/are rejected. Claim(s) is/are objected to.							
	Claim(s) is/arc objected to: Claim(s) are subject to restriction and/or	r election requirement						
ŕ	•	r ciccion requirement.						
Applicat	ion Papers							
9)	The specification is objected to by the Examine	r.						
10)🛛	The drawing(s) filed on <u>09 April 2004</u> is/are: a)	⊠ accepted or b) ☐ objected to	by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	ojected to. See 37 CFF	R 1.121(d).				
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTC)-152.				
Priority ι	under 35 U.S.C. § 119							
	Acknowledgment is made of a claim for foreign ⊠ All b) Some * c) None of:)-(d) or (f).					
	1. Certified copies of the priority documents							
	2. Certified copies of the priority documents	•						
	3. Copies of the certified copies of the prior	•	ed in this National S	tage				
	application from the International Bureau							
* \$	See the attached detailed Office action for a list	of the certified copies not receive	ed.					
Attachmen								
-	e of References Cited (PTO-892)	4) Interview Summary	•					
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal F	Pate Patent Application (PTO-	152)				
· · · · · · · · · · · · · · · · · · ·	r No(s)/Mail Date	6) Other:	•	·				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 & 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamazaki et al. (USPAP 2002/0004292).

Yamazaki et al. discloses a laser annealing apparatus and a method of annealing an amorphous silicon film. Laser light is generated and emitted from a source and then split. The split laser light is used to irradiate the front (primary beam) and the back (secondary beam) of the amorphous semiconductor film. This is shown in figures 3 and 18. It can be seen that the primary beam has a shorter path length than the secondary laser beam. An excimer laser may be used as the laser source. Additionally, an optical system may be used to generate harmonics. Photomasks may be used to generate predetermined patterns. The light source optical system is made up of a light source, an optical system, a reflector, a lens array, a polarization converting element and a condenser lens. (abstract, figures, 0005, 0049, 0061, 0063, 0104, 0128, 0129, 0180)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6-11 & 13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki et al., as stated in the above paragraph and further in view of Jung (USPN 6,825,493).

Yamazaki et al. does not teach (i) a photomask with a stripe pattern, (ii) a lens disposed on the optical path in front of the photomask and (iii) annealing amorphous silicon films in regions.

Jung discloses a silicon crystallization method using a photomask having a stripe pattern (38) and a condenser lens (40) is in front of the photomask. Figure 9b shows a striped crystallization pattern.

It would have been obvious to one of ordinary skill in the art at the time of the invention to use a striped photomask, a lens in front of the mask and annealing regions as taught by Jung in the Yamazaki et al. apparatus and process because these are merely variations of silicon recrystallization using laser annealing.

Response to Arguments

Applicant's arguments filed 12/7/05 have been fully considered but they are not persuasive. Applicant argues that multiple masks are not taught and the placement of the mask between the silicon and the laser. The examiner respectfully disagrees because the use of multiple masks is disclosed in the prior art (see figure 7A-E). Figures also show that the masks are placed between the laser source and the silicon substrate.

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The examiner respectfully notes that: Intended use has been continuously held not to be germane in determining the patentability of an apparatus. In re Finsterwalder, 168 USPQ 530. The manner or method in which a machine is to be utilized is not germane to the issue of patentability of the machine itself. In re Casey, 152 USPQ 235. A recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Macham, 2 USPQ 2d 1647. Purpose to which apparatus is put and expression relating apparatus to contents thereof during intended operation are not significant in determining patentability of an apparatus claim. Ex parte Thibault, 164 USPQ 666.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 21, 2006.

M. Alexandra Elve

Primary Examiner 1725